

Deploying Oracle FLEXCUBE Investor Servicing Application  
on WebSphere  
Oracle FLEXCUBE Investor Servicing  
Release 12.3.0.0.0  
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# 1. Deploying Oracle FLEXCUBE Investor Servicing on WebSphere

## 1.1 Introduction

This document explains the steps to deploy the Oracle FLEXCUBE IS application on IBM WebSphere application server.

## 1.2 Deploying Application

### 1.2.1 FCIS Application Deployment

To deploy Oracle FLEXCUBE IS application on WebSphere application server, you need to follow the steps given below:

1. Open the Administrative Console of WebSphere server:

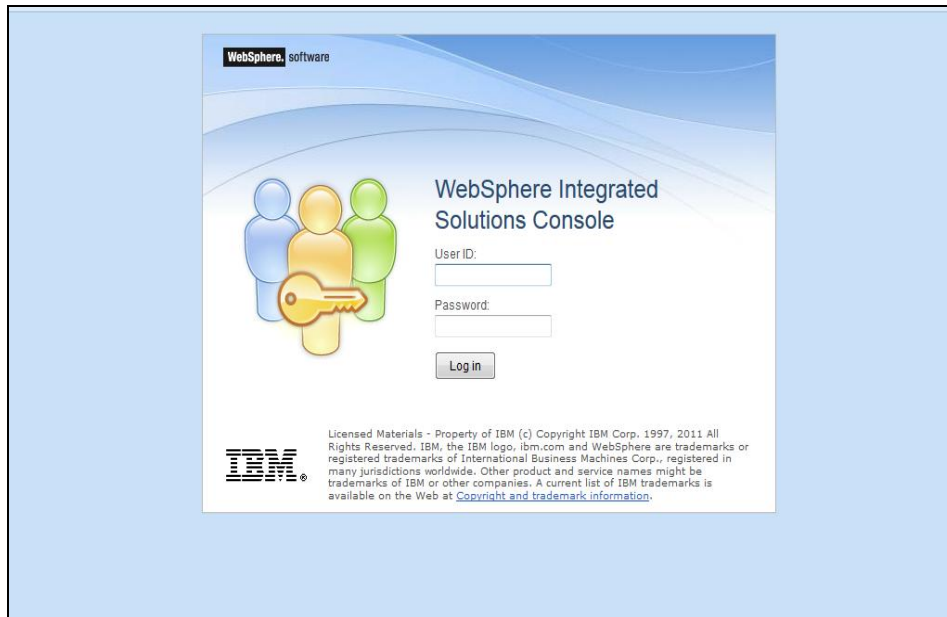
Open an internet browser and type the WebSphere Admin Console URL:

<http://{Host}:{Port}/ibm/console>.

Eg: <https://10.10.10.10/ibm/console>

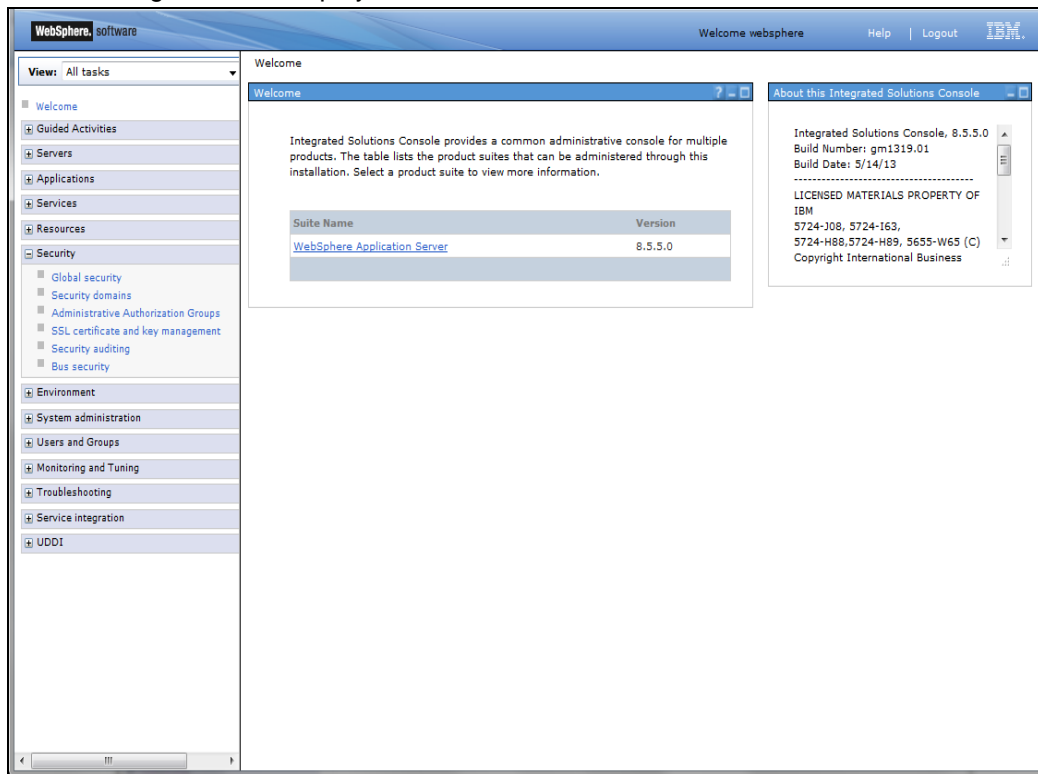
In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running.

The following screen is displayed:



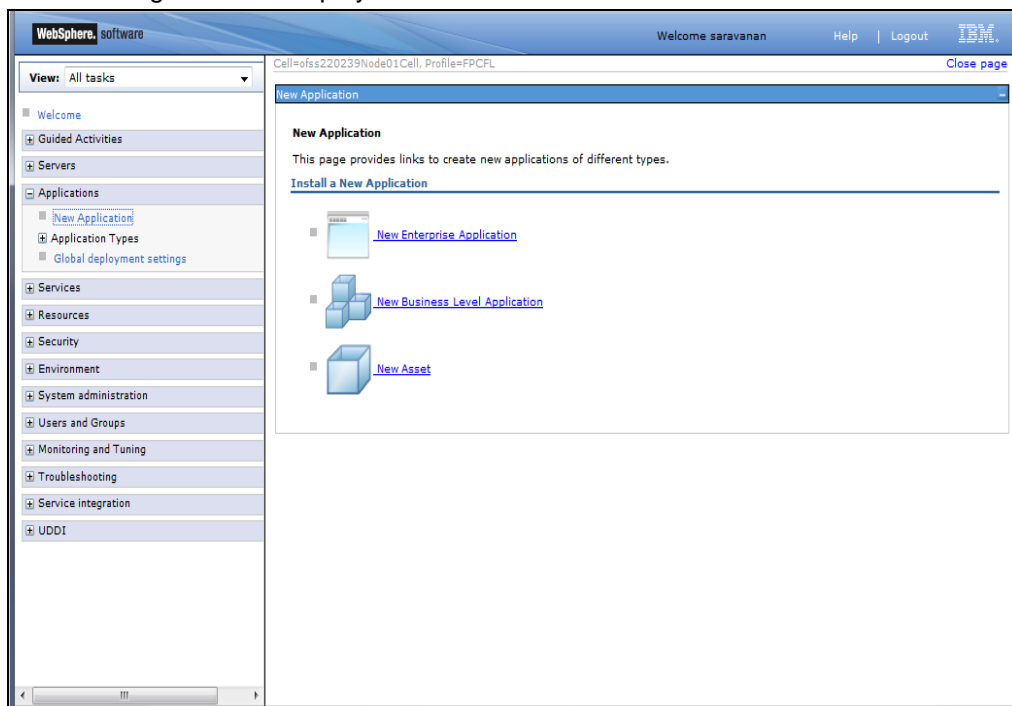
2. Enter the user name and password and click 'Log In' button to log in to the application server.
3. Navigate to the WebSphere Home Page.

The following screen is displayed.

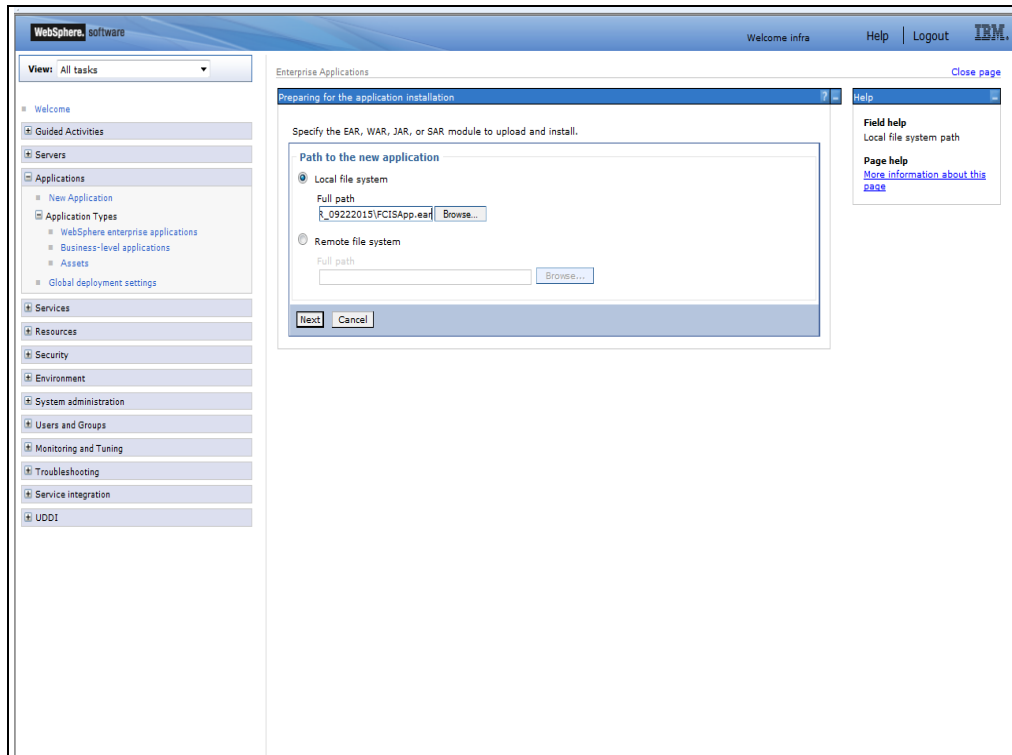


4. Expand Applications and Click 'New Application' option.

The following screen is displayed.

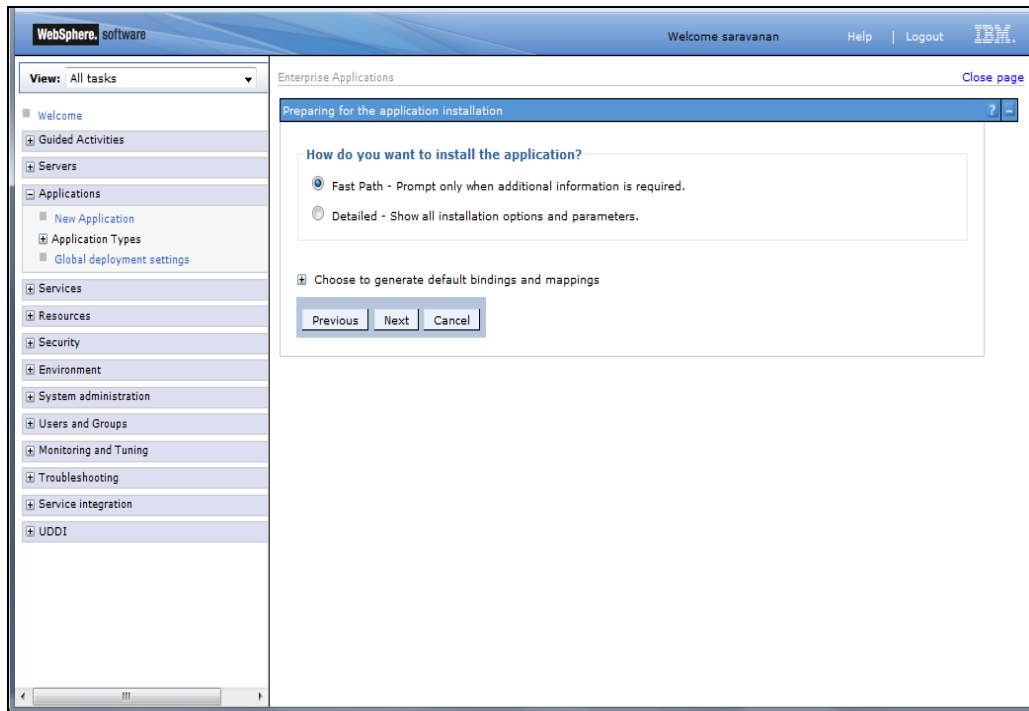


5. Click 'New Enterprise Application' option. The following screen is displayed:



6. Browse the application EAR file and click 'Next'.

The following screen is displayed.



- Click 'Next'. The following screen is displayed.

The screenshot shows the 'Install New Application' wizard in WebSphere. The left sidebar contains a navigation tree with 'Applications' > 'New Application' selected. The main area is titled 'Select installation options' and contains several configuration sections:

- Specify the various options that are available for your application.**
  - ☐ Precompile JavaServer Pages files
  - Directory to install application:
  - ☒ Distribute application
  - ☐ Use Binary Configuration
  - ☐ Deploy enterprise beans
  - Application name:
  - ☒ Create MBeans for resources
  - ☐ Override class reloading settings for Web and EJB modules
  - Reload interval in seconds:
  - ☐ Deploy Web services
  - Validate Input off/warn/fail:
  - ☐ Process embedded configuration
- File Permission**
  - Allow all files to be read but not written to
  - Allow executables to execute
  - Allow HTML and image files to be read by everyone
  - File permission:
- Application Build ID:
- ☐ Allow dispatching includes to remote resources
- ☐ Allow servicing includes from remote resources
- Business level application name:
- Asynchronous Request Dispatch Type:

- Enter the Application Name. This should be the application name mentioned as part of EAR building .
- Click 'Next'.

The screenshot shows the 'Map modules to servers' step of the 'Install New Application' wizard. The left sidebar is the same as the previous screen. The main area is titled 'Map modules to servers' and contains:

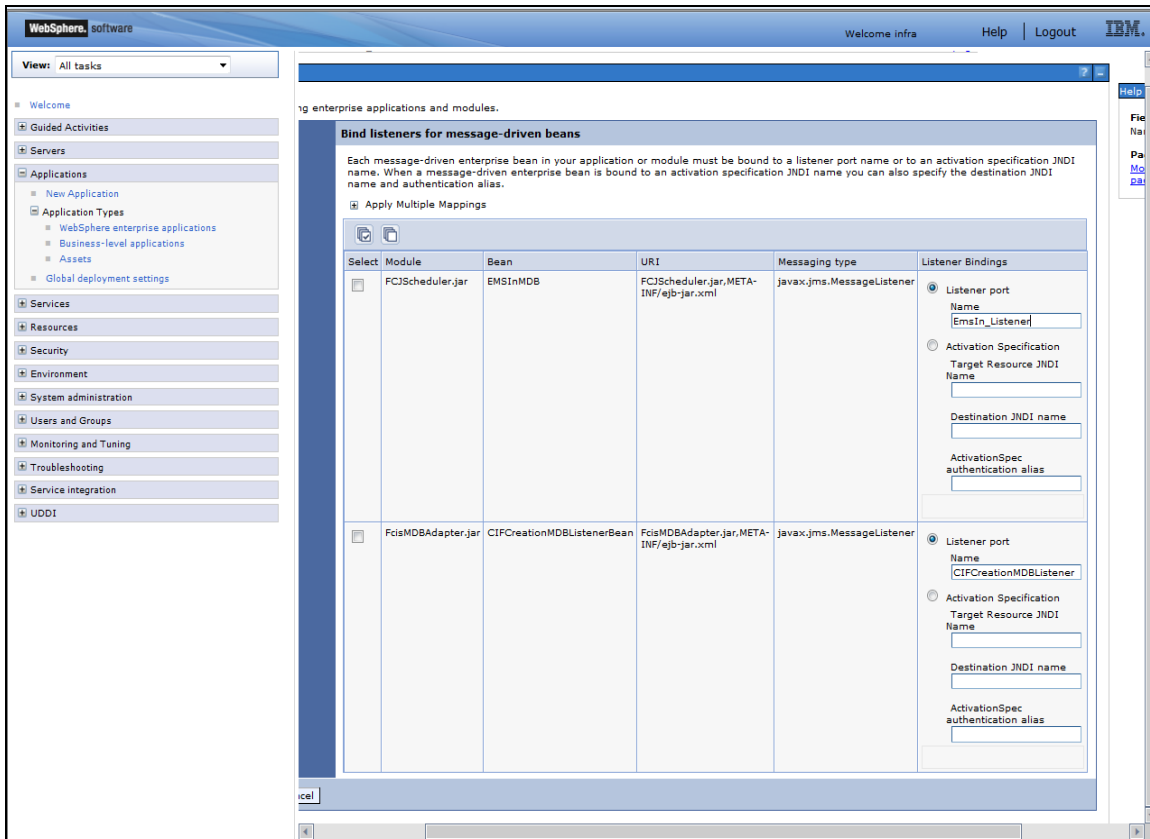
- Specify targets such as application servers or clusters of application servers where you want to install the modules that are contained in your application.**
- Clusters and servers:
- A table with columns: Select, Module, URI, and Server.

Select	Module	URI	Server
<input type="checkbox"/>	FCJGeneralEJB.jar	FCJGeneralEJB.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03.server=server1
<input type="checkbox"/>	FCJSMS.jar	FCJSMS.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03.server=server1
<input type="checkbox"/>	FCJBatch.jar	FCJBatch.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03.server=server1
<input type="checkbox"/>	FCServiceEJB.jar	FCServiceEJB.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03.server=server1
<input type="checkbox"/>	FCJScheduler.jar	FCJScheduler.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03.server=server1
<input type="checkbox"/>	FlexCubeCorporate	FCJWeb.war,WEB-INF/web.xml	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03.server=server1

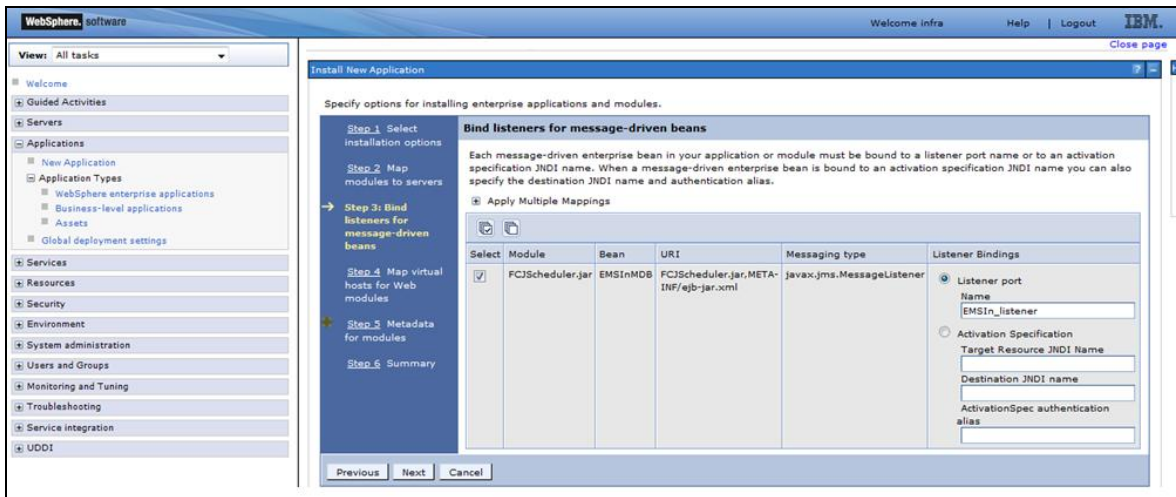
At the bottom are 'Previous', 'Next', and 'Cancel' buttons.

- Check all the options. Click 'Next'. The following screen is displayed. Specify the details as shown:

During property file creation, if insulation adapter is applicable, then the following screen will be displayed:



If insulation adapter is not applicable, then the following screen will be displayed:



11. Click 'Next'. Following screen is displayed

The screenshot shows the 'Install New Application' wizard in WebSphere software. The left sidebar contains a navigation tree with categories like Welcome, Servers, Applications, Services, Resources, Security, Environment, System administration, Users and Groups, Monitoring and Tuning, Troubleshooting, Service integration, and UDDI. The main panel is titled 'Install New Application' and shows 'Step 4: Map virtual hosts for Web modules' as the current step. The instructions state: 'Specify the virtual host for the Web modules that are contained in your application. You can install Web modules on the same virtual host or disperse them among several hosts.' Below this, there is a table with columns 'Select', 'Web module', and 'Virtual host'. The table contains one row with a checkbox, 'FlexCubeCorporate', and a dropdown menu set to 'default\_host'. At the bottom of the main panel are 'Previous', 'Next', and 'Cancel' buttons. On the right side, there is a 'Help' panel with 'Field help' and 'Page help' sections.

Select	Web module	Virtual host
<input type="checkbox"/>	FlexCubeCorporate	default_host

12. Click 'Next'.

The following screen is displayed.

The screenshot shows the 'Install New Application' wizard in WebSphere software, now at 'Step 5: Metadata for modules'. The instructions state: 'The metadata-complete attribute defines whether the deployment descriptor for this module is complete. Set the metadata-complete attribute to "true" to merge and persist annotation-based metadata with existing XML-based deployment descriptor metadata to avoid scanning of annotation-based metadata each time the module is read. If the attribute remains "false", then the annotation-based metadata is scanned each time the module is read and can impact performance.' Below this is a table with columns 'Module', 'URI', and 'metadata-complete attribute'. The table lists several modules and their corresponding URIs, with checkboxes for the 'metadata-complete attribute'. At the bottom of the main panel are 'Previous', 'Next', and 'Cancel' buttons. The right sidebar remains the same as in the previous screenshot.

Module	URI	metadata-complete attribute
FCJGeneralEJB.jar	FCJGeneralEJB.jar,META-INF/ejb-jar.xml	<input type="checkbox"/>
FCJSMS.jar	FCJSMS.jar,META-INF/ejb-jar.xml	<input type="checkbox"/>
FCJBatch.jar	FCJBatch.jar,META-INF/ejb-jar.xml	<input type="checkbox"/>
FCServiceEJB.jar	FCServiceEJB.jar,META-INF/ejb-jar.xml	<input type="checkbox"/>
FCJScheduler.jar	FCJScheduler.jar,META-INF/ejb-jar.xml	<input type="checkbox"/>
FlexCubeCorporate	FCJNeoWeb.war,WEB-INF/web.xml	<input type="checkbox"/>



Click next. The following screen is displayed:

**WebSphere, software** Welcome infra Help Logout IBM

View: All tasks

**Install New Application**

Specify options for installing enterprise applications and modules.

**Summary**

Options	Values
Precompile JavaServer Pages files	No
Directory to install application	
Distribute application	Yes
Use Binary Configuration	No
Deploy enterprise beans	No
Application name	FCISApp
Create MBeans for resources	Yes
Override class reloading settings for Web and EJB modules	No
Reload interval in seconds	
Deploy Web services	No
Validate Input off/warn/fail	warn
Process embedded configuration	No
File Permission	.%ldl=755#.*\,so=755#.*\,a=755#.*\,al=755
Application Build ID	Unknown
Allow dispatching includes to remote resources	No
Allow servicing includes from remote resources	No
Business level application name	
Asynchronous Request Dispatch Type	Disabled
Allow EJB reference targets to resolve automatically	No
Deploy client modules	No
Client deployment mode	Isolated
Validate schema	No
Cell/node/Server	<a href="#">Click here</a>

Previous Finish Cancel

**Help**

**Field help**  
For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**  
[More information about this page](#)

**Command Assistance**  
[View administrative scripting command for last action](#)

13. Click 'Finish'.

The following screen is displayed.

**WebSphere, software** Welcome infra Help Logout IBM

View: All tasks

**Installing...**

If there are enterprise beans in the application, the EJB deployment process can take several minutes. Do not save the configuration until the process completes.

Check the SystemOut.log on the deployment manager or server where the application is deployed for specific information about the EJB deployment process as it occurs.

ADMA5016I: Installation of FCISApp started.

ADMA5067I: Resource validation for application FCISApp completed successfully.

ADMA5058I: Application and module versions are validated with versions of deployment targets.

ADMA5005I: The application FCISApp is configured in the WebSphere Application Server repository.

ADMA5005I: The application FCISApp is configured in the WebSphere Application Server repository.

ADMA5081I: The bootstrap address for client module is configured in the WebSphere Application Server repository.

ADMA5053I: The library references for the installed optional package are created.

ADMA5005I: The application FCISApp is configured in the WebSphere Application Server repository.

ADMA5001I: The application binaries are saved in /scratch/app/was3555/IBM/WebSphere/AppServer/profiles/FCIS121\_TIR2/wstemp/100348368/workspace/cells/ofs220075Node03Cell/applications/FCISApp.ear/FCISApp.ear

ADMA5005I: The application FCISApp is configured in the WebSphere Application Server repository.

SECJ0400I: Successfully updated the application FCISApp with the appContextIDForSecurity information.

ADMA5005I: The application FCISApp is configured in the WebSphere Application Server repository.

ADMA5005I: The application FCISApp is configured in the WebSphere Application Server repository.

ADMA5113I: Activation plan created successfully.

ADMA5011I: The cleanup of the temp directory for application FCISApp is complete.

ADMA5013I: Application FCISApp installed successfully.

Application FCISApp installed successfully.

To start the application, first save changes to the master configuration.

Changes have been made to your local configuration. You can:

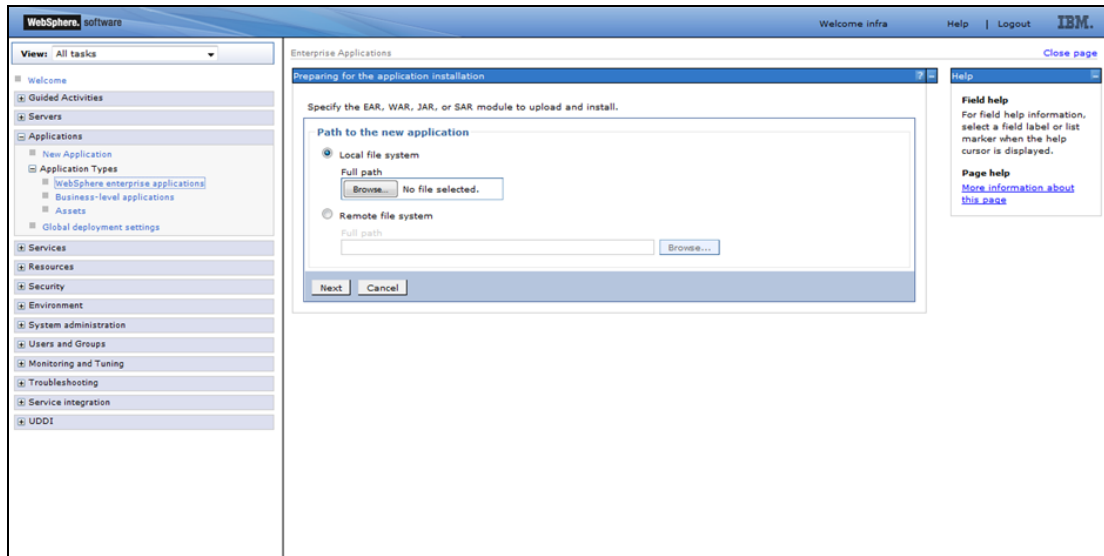
- Save directly to the master configuration.
- Review changes before saving or discarding.

To work with installed applications, click the "Manage Applications" link.

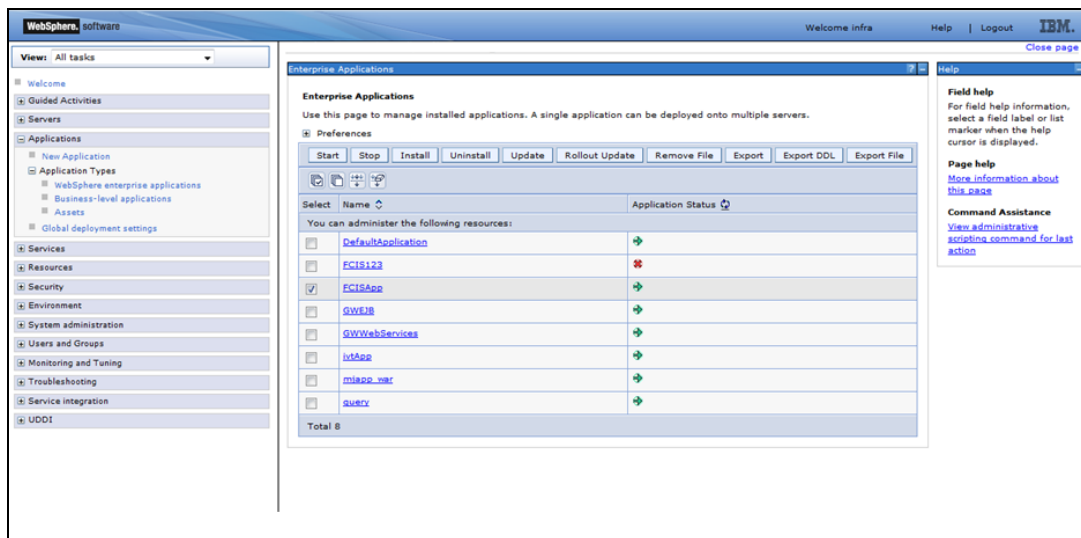
[Manage Applications](#)

14. Click 'Save'.

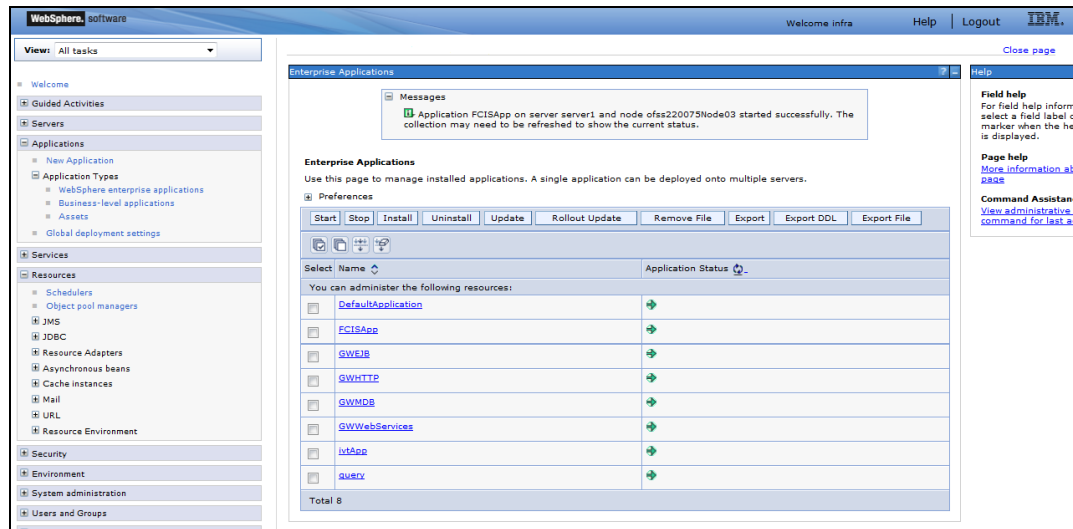
The following screen is displayed.



You need to manually select 'Websphere Enterprise Applications' from the left menu. The following screen is displayed:



Select the application and click 'Start'. The application starts as shown below:

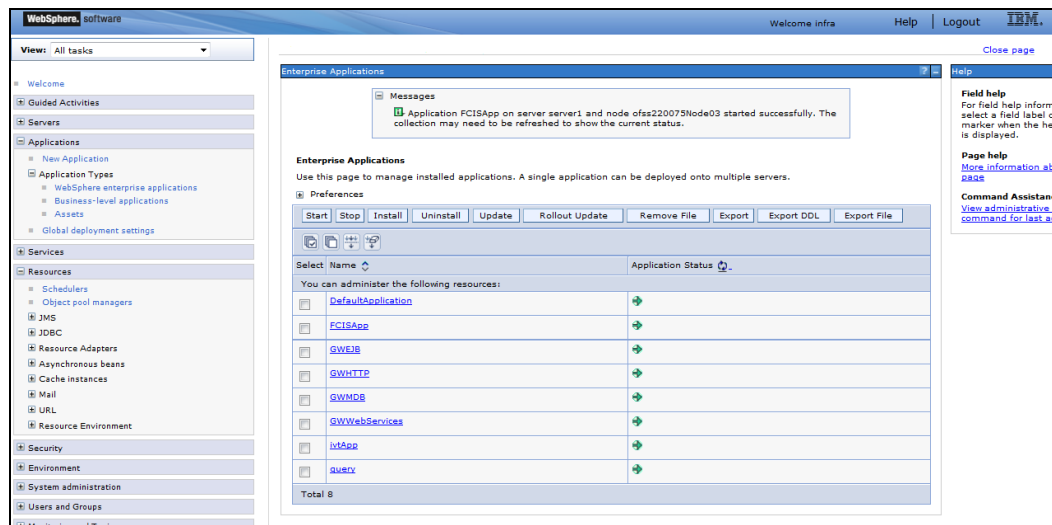


This completes the deployment of EAR (FCJNeoWeb.ear) on IBM WebSphere Application Server from the Administration Console.

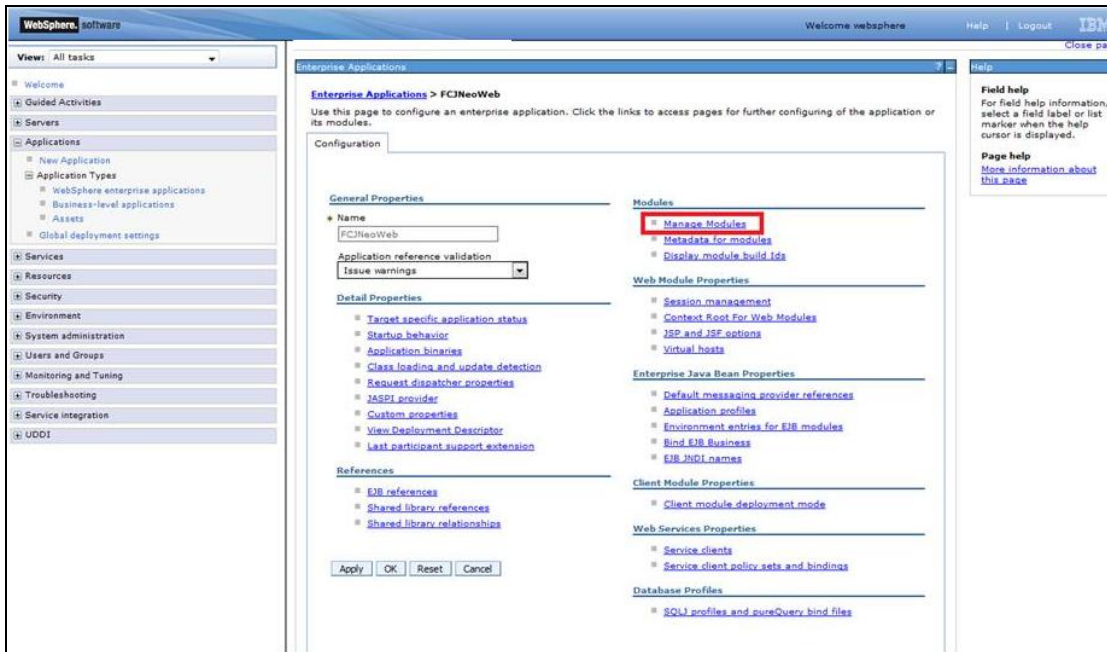
## 1.3 Standalone Scheduler Configuration

If standalone scheduler is enabled then below configuration should be done

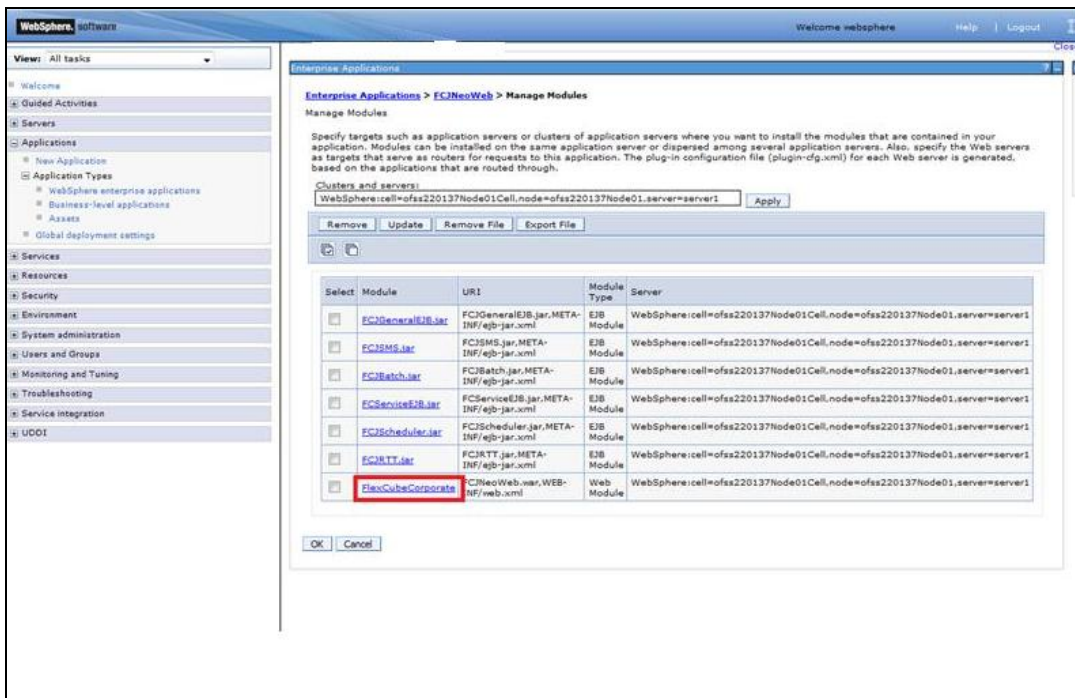
1. Login to websphere admin console. Expand 'Application > Application Types> WebSphere Enterprise Applications'. The following screen is displayed:



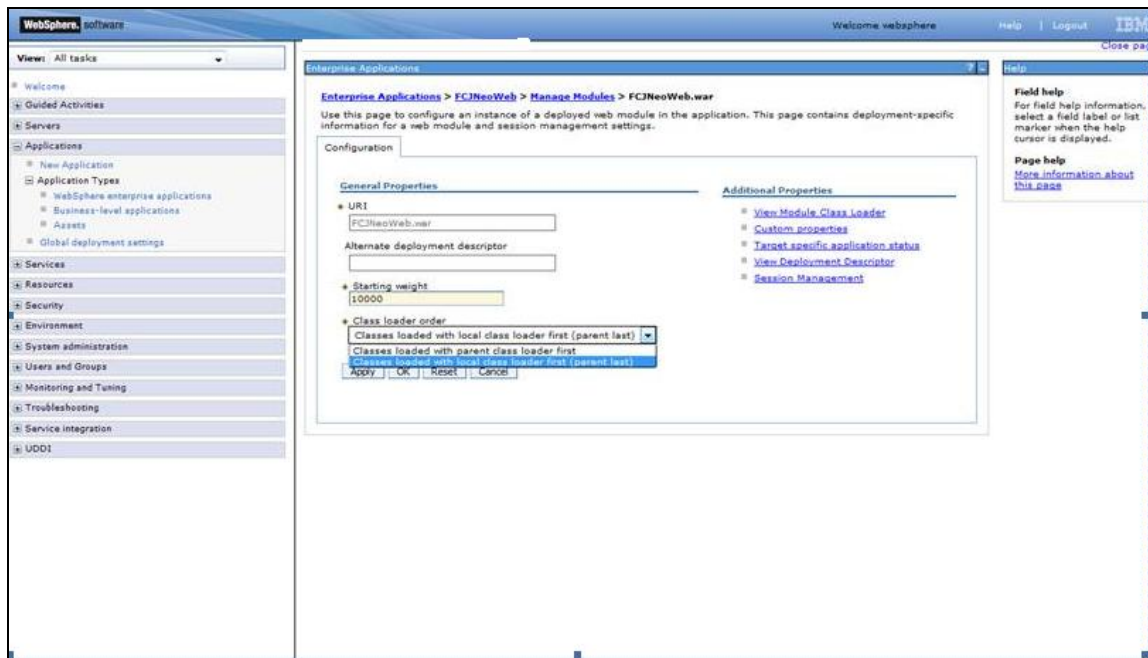
Click on the application 'FCISApp'. The following screen is displayed:



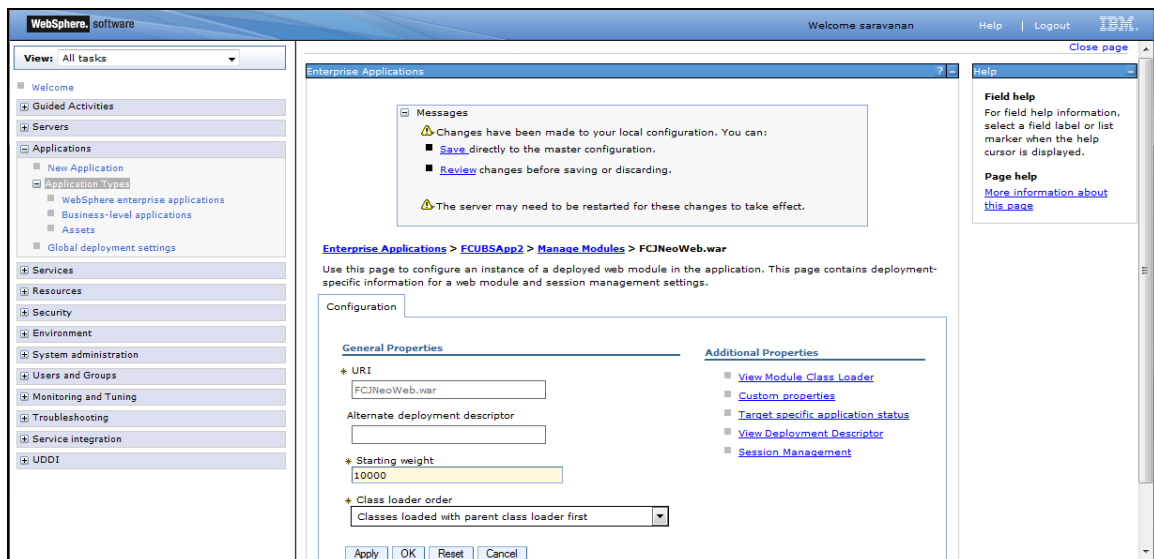
Click on 'Manage Modules'



Click on 'FlexCubeCorporate'. The following screen is displayed:



Select "Classes loaded with local class loader first (parent last)" from the dropdown 'Class loader order'. Click 'Apply' button.



Click 'Save' link and restart the server.

The screenshot shows the IBM WebSphere software console interface. The left sidebar contains a navigation menu with categories like 'Welcome', 'Guided Activities', 'Servers', 'Applications', 'Services', 'Resources', 'Security', 'Environment', 'System administration', 'Users and Groups', 'Monitoring and Tuning', 'Troubleshooting', 'Service integration', and 'UDDI'. The main content area is titled 'Enterprise Applications' and 'Manage Modules'. It includes a text box for 'Clusters and servers' with the value 'WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1' and an 'Apply' button. Below this are buttons for 'Remove', 'Update', 'Remove File', and 'Export File'. A table lists modules with columns for 'Select', 'Module', 'URI', 'Module Type', and 'Server'. The table contains six rows of modules, all of which are selected. At the bottom are 'OK' and 'Cancel' buttons.

Select	Module	URI	Module Type	Server
<input checked="" type="checkbox"/>	FCJGeneralEJB.jar	FCJGeneralEJB.jar,META-INF/ejb-jar.xml	EJB Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1
<input checked="" type="checkbox"/>	FCJSMS.jar	FCJSMS.jar,META-INF/ejb-jar.xml	EJB Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1
<input checked="" type="checkbox"/>	FCJBatch.jar	FCJBatch.jar,META-INF/ejb-jar.xml	EJB Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1
<input checked="" type="checkbox"/>	FCServiceEJB.jar	FCServiceEJB.jar,META-INF/ejb-jar.xml	EJB Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1
<input checked="" type="checkbox"/>	FCJScheduler.jar	FCJScheduler.jar,META-INF/ejb-jar.xml	EJB Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1
<input checked="" type="checkbox"/>	FlexCubeCorporate	FCJNeoWeb.war,WEB-INF/web.xml	Web Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1



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